Application No.: 10/587,759

Amendment Dated February 24, 2010 Reply to Office Action of November 30, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

(Currently Amended) A projection display apparatus comprising:

a first light generating instrument which includes a light source that generates white light;

a second light generating instrument which includes a plurality of solid state light sources which generate red, green, and blue monochromatic light respectively;

a light-modulation element which modulates the white light when the white light is received and which modulates the monochromatic light when the monochromatic light is received:

a color wheel including first, second, and third regions corresponding to red, green, and blue colors respectively, the first, second, and third regions circularly arranged;

a light guiding instrument which switches between guiding the white light and the monochromatic light to the <code>light modulation-elementcolor</code> wheel;

a light modulation element which modulates the light that has passed through the color wheel: and

a projection instrument which projects the light modulated by the light modulation element.

(Cancelled)

3. (Currently Amended) The projection display apparatus according to elaim-2claim 1, in which wherein the second light modulation-elementgenerating instrument lights up the solid state light sources selectively so that there is a match between a color corresponding to one of the regions of the color wheel located in a light path and the color of the monochromatic light.

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4. (Currently Amended) The projection display apparatus according to elaim 2 claim 1, in which wherein the color wheel further includes a region corresponding to white, and stops in a state of having the region corresponding to white located in a light path while the monochromatic light is selected by the light guiding instrument.

5. (Withdrawn) The projection display apparatus according to claim 1, wherein:

the light modulation element includes first, second and third light modulation elements provided respectively corresponding to solid state light sources of the monochromatic light; and

the light guiding instrument includes:

a first dichroic filter placed on an optical axis of the white light from the first light modulation element;

a first reflecting mirror placed in front of a light incident side of the first light modulation element, a second dichroic filter placed in front of the light incident side of the second light modulation element, and a second reflecting mirror placed on the optical axis of the light transmitted through the first and second dichroic filters of the light from the first light modulation element; and

a third reflecting mirror placed in front of the light incident side of the third light modulation element.

 (Currently Amended) The projection display apparatus according to claim 1, further eomprising:comprising a control instrument which controls at least operation of the light guiding instrument, and wherein:wherein

the control instrument controls the light guiding instrument to guide the monochromatic light to the light modulation element color wheel, and further then controls the light guiding instrument after a predetermined time to guided-guide the white light to the light-modulation element color wheel.

(Cancelled)

 (Currently Amended) The projection display apparatus according to claim-7claim 6, wherein:wherein the control instrument includes a light volume measuring instrument which at Application No.: 10/587,759 Amendment Dated February 24, 2010 Reply to Office Action of November 30, 2009

least measures a light volume of the first light generating instrument, and controls the light guiding instrument to guide the white light to the light modulation-elementcolor wheel at the time as the predetermined time, when the light volume measured by the light volume measuring instrument becomes equal to or more than a predetermined value.

(Cancelled)

 (Currently Amended) The projection display apparatus according to elaim 9 claim 1, wherein: wherein

an-the optical axis of the white light generated by the first light generating instrument between the first light generating instrument and the a_collector optics is substantially on a straight line; and

the optical axis of the monochromatic light generated by the second light generating instrument between the second light generating instrument and the collector optics is bent via the light guiding instrument.

11. (Currently Amended) The projection display apparatus according to elaim 9 claim 1, wherein: wherein

the optical axis of the monochromatic light generated by the second light generating instrument between the second light generating instrument and the a collector optics is substantially on a straight Herling, and

the optical axis of the white light generated by the first light generating instrument between the first light generating instrument and the collector optics is bent via the light quiding instrument.

12. (Currently Amended) The projection display apparatus according to claim 7claim 6, wherein: wherein

the first light generating instrument is driven by a first power supply based on supply of power from outside; outside.

the second generating instrument is driven by a second power supply which is a built-in power supply:supply,

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the control instrument monitors a status of the first power supply and the second power supply; supply, and

the control instrument controls the light guiding instrument to guide the monochromatic light to the light modulation element irrespective of the state of the first power supply and the second power supply, and exerts control, linstrument, (i) on detecting that at least the first power supply is supplied with the power from outside, controls the light guiding instrument to guide the monochromatic light to the color wheel, and then controls the light guiding instrument to guide the white light generating instrument and then the first light generating instrumentand (ii) on detecting that the first power supply is not supplied with the power from outside, controls the light guiding instrument to guide the monochromatic light to the color wheel.

- (Currently Amended) The projection display apparatus according to claim 1, in whichwherein the second light generating instrument is a light-emitting diode or a laser diode.
- 14. (Currently Amended) The projection display apparatus according to claim 1, in whichwherein the first light generating instrument is a lamp which emits light by arc discharge.
- 15. (Currently Amended) The projection display apparatus according to claim 1, in whichwherein the light guiding instrument includes a mirror surface located between the optical axis of the white light and the optical axis of the monochromatic light by rotation or parallel movement.
- 16. (Currently Amended) An image display method using:

a first light generating instrument which <u>includes a light source that generates</u> white light;

a second light generating instrument which includes a plurality of solid state light sources and thereby generates more than or equal to three kinds of which generate red, green, and blue monochromatic light respectively;

a color wheel including first, second, and third regions corresponding to red, green, and blue colors respectively, the first, second, and third regions circularly arranged;

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a light modulation element which modulates the white-light that has passed through the color wheelwhen the white light is received and which modulates the monochromatic light when the monochromatic light is received; and

a projection instrument which projects the light modulated by the light modulation element, and wherein: wherein

the method includes a light guiding step of switching between guiding the white light and the monochromatic light to the <u>color wheellight modulation element; and</u>

the light guiding step guides the monochromatic light to the light modulation element and then guides the white light to the light modulation element.

17. (Cancelled)

- 18. (Currently Amended) A recording medium which is recordedrecords a program and is processable by the a computer, wherein the program is for causing a the computer to function as a control instrument which controls at least operation of the light guiding instrument step of the projection display apparatus image display method according to claim 6claim 16.
- 19. (New) The projection display apparatus according to claim 3, wherein

the color wheel further includes a region corresponding to white, and

the second light generating instrument lights up, when the region corresponding to white is located in the light path, all the solid state light sources.